

Documentation for Obtaining an Alternate Management System Determination

Submitted by Wärtsilä Water Systems Ltd

CG-OES Policy Letter 12-01, Encl. (1) p. 1 Responses

Requirement	Cross-Reference	Comments
a. The foreign type approval certificate for the BWMS.	Type Approval certificate <u>AMS Support Documents (TA Files)</u> → Vol. 21.0 IMO TA Certificate → 21.1 EC Type Approval Certificate	Flag State Type Approval (cert.no13128/2013) Flag State Type Approval Certificate for full range of models AQ-EC-250 to AQ-3300-EC (TRC 250- 3300m ³ /hr)
b. Name, Point of contact, address, and phone number of the authority overseeing the foreign type approval program.	Mr Meindert C Vink Senior Advisor Netherlands Shipping Inspectorate Weena 723, 3013AM, Rotterdam, The Netherlands <u>Postal address:</u> PO Box 16191, 2500 BD, Den Haag The Netherlands <u>Email:</u> Meindert.Vink@ILenT.nl <u>Telephone</u> +31(0)102022400	
c. Final test results and findings, including the full analytical procedures and methods, results, interpretations of the results, and full description and documentation of the Quality Assurance procedures (i.e., sample chain of custody forms, calibration records, etc.) Information on the testing and test results should include:		

Requirement	Cross-Reference	Comments
1. Detailed descriptions;	<p><u>Land Based Test Protocol - NIOZ</u></p> <p><i>Test Protocol, Quality Control and Project Plan for then Biological Efficacy Testing of the Hamworthy Water Systems Ltd, UK Ballast Water Treatment System AQUARIUS® EC As Part of the Type Approval Process Under Resolution MEPC 125.53 and MEPC 174.58</i> [Vol. 10.0 2 → Vol.10.1]</p> <p>AND</p> <p><u>Test Pan (shipboard tests)</u></p> <p>→ Shipboard QMP & QAPP</p> <p>→ [Vol.14.0 → Vol. 14.1]</p>	<p>ALL REFERENCED DOCUMENTS ARE FILED IN Sub-directory</p> <p>AMS Support Documents (TA Files)</p>
2. Complete copies of original data reports from the testing laboratory;	<p><u>Land-based Test Report</u></p> <p><i>Land-based Test according to IMO Guideline G8 of the Hamworthy Water Systems Ltd Aquarius-EC (Electro chlorination) Ballast Water Management System (2011-2012)</i></p> <p>→ [Vol. 12.0 → Vol. 12.1]</p> <p>AND</p> <p><u>GoConsult Shipboard Report</u></p> <p><i>Final Report Shipboard Tests of the Wärtsilä AQUARIUS® EC Ballast Water Treatment System (Filtration and Electrochlorination) for Type Approval according to Regulation D-2 and the relevant IMO Guideline (G8)</i></p> <p>→ [Vol.15.0 → Vol. 15.1]</p>	<p>ALL REFERENCED DOCUMENTS ARE FILED IN Sub-directory</p> <p>AMS Support Documents (TA Files)</p>

Requirement	Cross-Reference	Comments
3. Notations for any data requiring validation or estimation and the methods used to do so; and	N/A	N/A
4. Detailed descriptions and documentation of the Quality Assurance / Quality Control Procedures.	<p><u>Land Based Test Protocol - NIOZ</u></p> <p><i>Test Protocol, Quality Control and Project Plan for then Biological Efficacy Testing of the Hamworthy Water Systems Ltd, UK Ballast Water Treatment System AQUARIUS® EC As Part of the Type Approval Process Under Resolution MEPC 125.53 and MEPC 174.58</i> [Vol. 10.0 2 → Vol.10.1]</p> <p>Also</p> <p><u>Test Pan (shipboard tests)</u></p> <p>→ Shipboard QMP & QAPP → [Vol. 14.0 → Vol. 14.1]</p> <p><u>GoConsult Shipboard Report</u></p> <p><i>Final Report Shipboard Tests of the Wärtsilä AQUARIUS® EC Ballast Water Treatment System (Filtration and Electrochlorination) for Type Approval according to Regulation D-2 and the relevant IMO Guideline (G8)</i></p> <p>→ [Vol.15.0 → Vol. 15.1]</p>	<p>ALL REFERENCED DOCUMENTS ARE FILED IN Sub-directory</p> <p>AMS Support Documents (TA Files)</p> <p>Included in this location are the full chain of custody records for the samples collected during shipboard tests performed by GoConsult.</p>
d. A description of any modification made to the system after completion of the testing for which a determination is requested.		
i. Description of any modifications made after a BWMS was tested;		The only modification that have been included in the AQUARIUS® EC BWMS was the upgrade of the specification of the TRO meter in order to reflect the availability of the latest
ii. Purpose for the modification; and		

Requirement	Cross-Reference	Comments
iii. Any associated data needed to support the modification		model in the suppliers range. Other changes are more relevant to the modular configuration of the equipment to facilitate serial production.
e. A Coast Guard type approval application as described under 46 CFR 162.060-12		
f. A completed Alternate Management System Review Checklist with Column B completed and indicating clearly where in the submitted documentation the relevant sections of the Guidelines for approval of ballast water management systems (G8) are addressed.	Reference document filed in directory → AMS Check List → AMS AQUARIUS EC Submission- issue 01.pdf AND A MS Word version of the Checklist <u>only</u> is available for reviewer's editing as required → AMS Check List → AMS Checklist-AQUARIUS EC - issue 03).docx	Fully electronic checklist that includes fully indexed, bookmarked and hyperlinked references (130MB pdf format document size)